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EXAMINER

ZHOU, TING

ART UNIT PAPER NUMBER

2173

DATE MAILED: 02/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/976,188

Applicant(s)

GEIDL, ERIK M.

Examiner

Ting Zhou

Art Unit

2173

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 November 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. The amendment filed on 25 November 2005 have been received and entered. Claims 1-33 as amended are pending in the application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-4, 6-10, 12-15, 17-21, 23, 25-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Partanen et al. U.S. Publication 2003/0001899 (hereinafter "Partanen") and Skinner U.S. Patent 6,661,920.

Referring to claims 1 and 18, Partanen teaches a method and system comprising user interface code evaluating a program field that has focus against information indicative of whether the field is configured to receive text input (the interface determines whether the user has initiated manuscript input to any point on a touch-activated screen of a display, thereby causing a semi-transparent window to be opened) (Partanen: page 1, paragraph 0016); and if the field is configured to receive text input (if a user activated manuscript input has been received) (Partanen: page 1, paragraph 0016), providing a visible user input interface at a displayed location relative to the field such that the user input interface is operable to receive handwritten data while the field is operable to receive input data (upon user initiation of manuscript input at

point 36 on the display screen of Figure 1, a semi-transparent window is displayed relative to the field, allowing users to input manuscript characters, for example, the letter "I", while the field is operable to receive input data such as user input of particular letters and/or numbers from a virtual keyboard) (Partanen: page 2, paragraph 0032 and page 3, paragraph 0038); receiving handwritten data at the input interface (Partanen: page 2, paragraph 0022 and Figure 1); providing the handwritten data to a recognition engine (relaying the pattern of the handwritten character to the handwriting recognition software) (Partanen: page 2, paragraph 0025); and returning a recognition result to the program (for example, recognizing the handwritten "I" and outputting it as the character "I" in Figure 1) (Partanen: page 2, paragraph 0022). However, although Partanen teaches a virtual keyboard, Partanen fails to explicitly teach simultaneously receiving typed and handwritten user input. Skinner teaches an interface that allows users to enter handwritten data similar to that of Partanen. In addition, Skinner further teaches receiving typed user input and the program field being operable to simultaneously receive typed and handwritten user input (the handwriting and typed keyboard input systems are simultaneously active and capable of data entry) (Skinner: column 2, line 41-column 3, line 3). It would have been obvious to one of ordinary skill in the art, having the teachings of Partanen and Skinner before him at the time the invention was made, to modify the handwriting recognition method of Partanen to include the simultaneous handwriting and typed keyboard input capabilities of Skinner. One would have been motivated to make such a combination in order to provide a flexible user data entry system, giving the user an option to choose the more convenient input mechanism depending on the function to be executed without the hassle of having to switch between the input systems.

Referring to claims 2 and 19, Partanen, as modified, teach the visible user input interface is semi-transparent (Partanen: page 1, paragraphs 0015-0016).

Referring to claim 3, Partanen, as modified, teach wherein the handwritten data received at the input interface is evaluated to determine whether the handwritten data corresponds to a gesture (deciphering whether user input is a gesture, such as user selection of virtual buttons and keys from a virtual keyboard, or user input of written manuscript characters that requires handwriting recognition) (Partanen: pages 2-3, paragraphs 0032-0040).

Referring to claim 4, Partanen, as modified, teach wherein the handwritten data corresponds to a gesture, and further comprising, providing at least one pen event corresponding to the gesture to the program (for example, if the handwritten data is a gesture of user selection of a virtual button 44 with an external input device such as the pen 30 shown in Figure 2, then the pen selection of virtual button 44 causes an event such as deactivation of the semi-transparent window) (Partanen: page 3, paragraphs 0038-0040).

Referring to claims 6 and 26, Partanen, as modified, teach providing the handwritten data to a recognition engine in response to detection of a submit button associated with the visible user interface (the semi-transparent user interface provides for the display of a virtual keyboard having letters, or buttons, the users can select; furthermore, user handwritten data is recognized after the user gesture of touching a field with the stylus to indicate handwriting and causing display of the semi-transparent window) (Partanen: page 1, paragraphs 0014-0016, page 2, paragraph 0032 and page 3, paragraphs 0035 and 0038).

Referring to claim 7, Partanen, as modified, teach providing the handwritten data to a recognition engine is performed in response to a time being achieved (displaying the handwritten

input for a predetermined period of time after the input from the input device, upon which the pattern is completed and recognized by the recognition software) (Partanen: page 2, paragraph 0024 and page 3, paragraphs 0033-0035).

Referring to claim 8, Partanen, as modified, teach wherein providing the handwritten data to a recognition engine is performed in response to a gesture being detected (user handwritten data is recognized after the user gesture of touching a field with the stylus to indicate handwriting and causing display of the semi-transparent window) (Partanen: page 1, paragraphs 0014-0016 and page 2, paragraph 0032).

Referring to claims 9 and 20, Partanen, as modified, teach evaluating at least one window attribute corresponding to the field against hard-coded or retrieved information to determine whether the field is supported (evaluating, or determining the window attribute of whether the user has contacted the displayed window, or screen, with the stylus) (Partanen: page 1, paragraph 0016 and page 2, paragraph 0032).

Referring to claim 10, Partanen, as modified, teach accessing window class information (accessing window information such as determining whether user has contacted the windowed area with a stylus) (Partanen: page 1, paragraph 0016 and page 2, paragraphs 0027-0030 and 0032).

Referring to claim 12, Partanen, as modified, teach adjusting the appearance of the visible input window (the semi-transparent window may be moved or sized according to the preferences of the user) (Partanen: page 1, paragraph 0015).

Referring to claim 13, Partanen, as modified, teach increasing the size of the visible input window to enable entry of additional handwritten data (increasing the size of the semi-transparent window) (Partanen: page 2, paragraph 0031).

Referring to claim 14, Partanen, as modified, teach erasing the visible input window (selection of the virtual button 44 will cause the semi-transparent window to de-activate and disappear) (Partanen: page 3, paragraph 0039).

Referring to claim 15, Partanen, as modified, teach the visible input window is erased in response to a close request (selection of the virtual button 44 will cause the semi-transparent window to de-activate and disappear) (Partanen: page 3, paragraph 0039).

Referring to claim 17, Partanen, as modified, teach wherein the visible input window is erased in response to a gesture being detected (upon user gesture of selection of virtual button 44, the semi-transparent input window is deactivated and disappears) (Partanen: page 3, paragraph 0039).

Referring to claim 21, Partanen, as modified, teach wherein the entered data comprises handwritten data (user input of handwritten characters) (Partanen: page 2, paragraph 0022 and Figure 1), and further comprising a gesture detection engine that evaluates the handwritten data to determine whether the handwritten data corresponds to a gesture (deciphering whether user input is a gesture, such as user selection of virtual buttons and keys from a virtual keyboard, or user input of written manuscript characters that requires handwriting recognition) (Partanen: pages 2-3, paragraphs 0032-0040), and if so, to provide at least one event to the program (for example, if the handwritten data is a gesture of user selection of a virtual button 44 with an external input device such as the pen 30 shown in Figure 2, then the pen selection of virtual

button 44 causes an event such as deactivation of the semi-transparent window) (Partanen: page 3, paragraphs 0038-0040).

Referring to claim 23, Partanen, as modified, teach wherein the entered data comprises handwritten data (user input of handwritten characters) (Partanen: page 2, paragraph 0022 and Figure 1), and further comprising a rulebase that determines an appearance of the visible input area including a displayed size thereof (pre-selected preferences that may be established such as the display size of the semi-transparent window) (Partanen: page 2, paragraphs 0027-0031).

Referring to claim 25, Partanen, as modified, teach wherein the visible input area has at least one button associated therewith for receiving a command (the semi-transparent window has a plurality of buttons that can be selected by the user) (Partanen: page 3, paragraphs 0038-0039 and further shown in Figure 1).

Referring to claim 27, Partanen, as modified, teach wherein the user input interface code provides the recognition result to the program in a message queue associated with the program (as each handwriting character is written, the display signal for displaying the recognized handwriting is generated and each characters is displayed on the screen in a queue, i.e. one at a time) (Partanen: page 2, paragraphs 0024-0025 and further shown in Figure 1).

Referring to claim 28, Partanen, as modified, teach wherein the drawing of the visible input area positions the visible input area relative to the field based on the information received from the field typing engine (the semi-transparent window is displayed at a particular position and in a particular size corresponding to user pre-selected preferences) (Partanen: page 2, paragraphs 0027-0031).

Referring to claim 29, Partanen, as modified, teach wherein the drawing of the visible input area sizes the visible input area based on the information received from the field typing engine (the semi-transparent window is displayed at a particular position and in a particular size corresponding to user pre-selected preferences) (Partanen: page 2, paragraphs 0027-0031).

3. Claims 5, 16 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Partanen et al. U.S. Publication 2003/0001899 (hereinafter "Partanen") and Skinner U.S. Patent 6,661,920, as applied to claims 1 and 18 above, and Frink et al. U.S. Patent 5,956,423 (hereinafter "Frink").

Referring to claims 5 and 22, Partanen and Skinner teach all of the limitations as applied to claims 1 and 18 above. Specifically, Partanen and Skinner teach a semi-transparent user interface and user input gestures (Partanen: page 1, paragraph 0016, page 3, paragraphs 0038-0040 and further shown in Figure 2). However, Partanen and Skinner fail to explicitly teach the gesture comprising user input directed to an area of the program that is visible through the user interface. Frink teaches an interface for inputting and recognizing handwritten data (Frink: column 2, line 37-column 3, line 4) similar to that of Partanen and Skinner. In addition, Frink further teaches user inputting gestures directed to an area of the program that is visible through the interface (Frink: column 2, line 37-column 3, line 4 and column 3, lines 52-64). It would have been obvious to one of ordinary skill in the art, having the teachings of Partanen, Skinner and Frink before him at the time the invention was made, to modify the handwriting input interface comprising gesture detection of Partanen and Skinner to include the input of gestures taught by Frink. One would have been motivated to make such a combination in order to allow

users to easily edit the documents, reducing the confusion of mixing up editing commands and data input by the user.

Referring to claim 16, Partanen, as modified, teach erasing the input window in response to a time being achieved (sending the handwritten data to the recognition engine, and therefore erasing the input, when the user stops writing for a period of time) (Frink: column 2, lines 44-63 and Figures 2A, 2B and 2C).

4. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Partanen et al. U.S. Publication 2003/0001899 (hereinafter "Partanen") and Skinner U.S. Patent 6,661,920, as applied to claim 1 above, and Gilai et al. U.S. Patent 6,018,736 (hereinafter "Gilai").

Referring to claim 11, Partanen and Skinner teach all of the limitations as applied to claim 1 above. Specifically, Partanen and Skinner teach obtaining information indicative of whether the field is configured to receive text input (determining whether the user has initiated manuscript input to any point on a touch-activated screen of a display, thereby causing a semi-transparent window to be opened) (Partanen: page 1, paragraph 0016). However, Partanen and Skinner fail to explicitly teach accessing a database to obtain information. Gilai teaches a method comprising handwriting recognition (Gilai: column 23, lines 7-10) similar to that of Partanen and Skinner. In addition, Gilai further teaches accessing a database to obtain information (Gilai: column 5, line 63 – column 6, line 3). It would have been obvious to one of ordinary skill in the art, having the teachings of Partanen, Skinner and Gilai before him at the time the invention was made, to modify the method of determining whether a field is configured to receive text input of Partanen and Skinner to include the access of a database to obtain

information taught by Gilai. One would have been motivated to make such a combination in order to provide an organized and efficient way of indexing, storing and retrieving a large amount of information.

5. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Partanen et al. U.S. Publication 2003/0001899 (hereinafter "Partanen"), Skinner U.S. Patent 6,661,920, as applied to claim 18 above, and Microsoft® Excel, copyright 1999 (hereinafter "Excel").

Referring to claim 24, Partanen and Skinner teach all of the limitations as applied to claim 18 above. However, although Partanen and Skinner teach increasing the size of the visible input window (re-sizing the displayed semi-transparent window) (Partanen: page 2, paragraphs 0027-0031), Partanen and Skinner fail to explicitly teach increasing the size of the visible input window based on the data approaching an end thereof and to enable entry of additional data. Excel teaches an input interface that adjusts the appearance of the visible input window (see screenshots 2 and 3 attached at the end of the office action) similar to that of Partanen and Skinner. In addition, Excel further teaches increasing the size of the visible input window based on the data approaching an end thereof and to enable entry of additional data (see screenshots 2 and 3). It would have been obvious to one of ordinary skill in the art, having the teachings of Partanen, Skinner and Excel at the time the invention was made, to modify the input interface of Partanen and Skinner to include increasing the size of the input window as needed, taught by Excel. One would have been motivated to make such a combination in order to allow users to enter as much information as needed, making it easier for them to input and view information.

6. Claims 30-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Partanen et al. U.S. Publication 2003/0001899 (hereinafter "Partanen"), Skinner U.S. Patent 6,661,920 and Frink et al. U.S. Patent 5,956,423 (hereinafter "Frink").

Referring to claim 30, Partanen teaches a system comprising an application program having at least one application input area into which user input data can be entered (the email program shown in Figure 1 has a plurality of user input areas such as Attachments, Subject, etc., into which user data can be entered) (Partanen: page 1, paragraphs 0014-0016); user interface code external to the application program (semi-transparent interface window for receiving handwritten input) (Partanen: pages 1-2, paragraph 0022, pages 2-3, paragraphs 0032-0040 and further shown in Figure 1); a typing engine that determines whether to call the user interface code for a selected application input area of the application program based on attribute information associated with that application input area (based on attribute information for the application input area, such as whether user has initiated manuscript input to a point of the input area on a touch-activated screen, it is determined whether the user interface code should be called, i.e. whether a semi-transparent window should be displayed) (Partanen: page 1, paragraph 0016, pages 1-2, paragraph 0022 and pages 2-3, paragraphs 0032-0040), the user interface code providing a semi-transparent input area based on the attribute information when called, the semi-transparent input area configured such that a user may still enter data via user input into the user interface code (upon user initiation of manuscript input at point 36 on the display screen of Figure 1, a semi-transparent window is displayed relative to the field, allowing users to input manuscript characters, for example, the letter "I", while the field is operable to receive input data such as user input of particular letters and/or numbers from a virtual keyboard) (Partanen: page

2, paragraph 0032 and page 3, paragraph 0038); a gesture engine, the gesture engine invoked to determine whether user input data directed to the semi-transparent input area is a gesture directed to the application program or information that should be recognized as text (deciphering whether user input is a gesture, such as user selection of virtual buttons and keys from a virtual keyboard, or user input of written manuscript characters that requires handwriting recognition) (Partanen: pages 2-3, paragraphs 0032-0040); and a handwriting recognition engine, the handwriting recognition engine configured to receive the information that the gesture engine has decided should be recognized as text (when users input handwritten character, the pattern of the handwritten is relayed to the handwriting recognition software) (Partanen: page 2, paragraph 0025), the handwriting recognition engine responding by returning recognized text when provided with the information (for example, recognizing the handwritten "I" and outputting it as the character "I" in Figure 1) (Partanen: page 2, paragraph 0022). However, although Partanen teaches a virtual keyboard, Partanen fails to explicitly teach simultaneously receiving typed and handwritten user input. Skinner teaches an interface that allows users to enter handwritten data similar to that of Partanen. In addition, Skinner further teaches receiving typed user input and the program field being operable to simultaneously receive typed and handwritten user input (the handwriting and typed keyboard input systems are simultaneously active and capable of data entry) (Skinner: column 2, line 41-column 3, line 3). It would have been obvious to one of ordinary skill in the art, having the teachings of Partanen and Skinner before him at the time the invention was made, to modify the handwriting recognition method of Partanen to include the simultaneous handwriting and typed keyboard input capabilities of Skinner. One would have been motivated to make such a combination in order to provide a more flexible user data entry

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system, giving the user an option to choose the more convenient input mechanism depending on the function to be executed without the hassle of having to switch between the input systems.

However, although Partanen and Skinner teach a timing mechanism (displaying the handwritten input for a predetermined period of time after the input from the input device, upon which the pattern is completed and recognized by the recognition software) (Partanen: page 2, paragraph 0024 and page 3, paragraphs 0033-0035), Partanen and Skinner fail to explicitly teach a timing mechanism configured to cause removal of the semi-transparent input area when no user interaction with the visible input area is detected for a period of time. Frink teaches an interface for inputting and recognizing handwritten data (Frink: column 2, lines 37-65) similar to that of Partanen and Skinner. In addition, Frink further teaches a timing mechanism configured to cause removal of the input when no user interaction with the input area is detected for a period of time (sending the handwritten data to the recognition engine, and therefore erasing the input, when the user stops writing for a period of time) (Frink: column 2, lines 44-63 and Figures 2A, 2B and 2C). It would have been obvious to one of ordinary skill in the art, having the teachings of Partanen, Skinner and Frink before him at the time the invention was made, to modify the input recognition interface comprising the timing mechanism of Partanen and Skinner to include the timing mechanism taught by Frink. One would have been motivated to make such a combination in order to allow users to easily edit the documents, reducing the confusion of mixing up editing commands and data input by the user. Furthermore, it allows users to perform functions such as note taking faster and more efficiently; recognizing characters after a certain time has elapsed, representing the user has completed taking notes, is faster and more efficient than translating the written data character by character as the user is taking notes.

Referring to claim 31, Partanen, as modified, teach wherein the recognized text is received by the user interface code and made available to the application program (handwritten text characters are input through the semi-transparent window and recognized text are displayed on the email program shown in Figure 1) (Partanen: page 2, paragraphs 0022-0025 and 0032).

Referring to claim 32, Partanen, as modified, teach wherein the application program displays the recognized text in the application input area (text characters are displayed on the semi-transparent window and on area 20 of Figure 1) (Partanen: page 2, paragraphs 0022-0025 and 0032).

Referring to claim 33, Partanen, as modified, teach a growth rulebase, the growth rulebase determining whether to alter an appearance of the semi-transparent input area in response to the information received therein (pre-selected preferences that may be established such as the display size of the semi-transparent window can be altered) (Partanen: page 2, paragraphs 0027-0031).

Response to Arguments

7. Applicant's arguments with respect to claims 1, 18 and 30 have been considered but are moot in view of the new ground(s) of rejection. However, in the interest of furthering prosecution, several of the applicant's arguments will be addressed below:

8. With respect to claims 1, 18 and 30, the applicant argues that the input of data from a virtual keyboard of Partanen is not a form of typed input. The examiner respectfully disagrees. The definition of "type" from Microsoft's Computer Dictionary Fifth Edition (copy of which is

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attached with the office action) is defined to be “to enter information by means of the keyboard”. The definition does not specify that the keyboard is an actual physical keyboard instead of a virtual keyboard. In addition, the examiner respectfully points out that the language of the recited claims does not explicitly specify that the typed input data is received from a *physical keyboard*. Therefore, the examiner argues that Partanen’s teaching of entering information via the keyboard, albeit the virtual keyboard, is a form of typed input. Similarly, Skinner’s teachings of simultaneously receiving input from the handwriting input system and the virtual keyboard system, as recited in column 2, line 41-column 3, line 3, teaches simultaneously receiving typed input data and handwritten input data.

9. With respect to claim 10, the applicant argues that Partanen simply teaches expanding an input field when double-tapped and does not show any capability of assessing window attributes or window class information. The examiner respectfully disagrees. Partanen teaches that window attributes such as whether the user has contacted the displayed window with the stylus, are evaluated in order to display a semi-transparent window; furthermore, when it is determined that the user has contacted the window, a signal is generated to the data processor to access semi-transparent window’s attributes, or class information, i.e. the preferences established for opening the semi-transparent window, as recited on page 1, paragraph 0016 and page 2, paragraph 0032. Therefore, the examiner respectfully maintains that Partanen teaches assessing window attributes or window class information.

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10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ting Zhou whose telephone number is (571) 272-4058. The examiner can normally be reached on Monday - Friday 7:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca can be reached at (571) 272-4048. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TZ



KIEU D. VU
Primary Examiner